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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/887,703	03/29/2001	Joseph L. DiCesare	03141- P0349A	3422	
	590 10/05/2004		EXAM	EXAMINER	
ST. ONGE STEWARD JOHNSTON & REENS, LLC 986 BEDFORD STREET			SNAY, JEFFREY R		
STAMFORD,			ART UNIT	PAPER NUMBER	
			1743		

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	. (
	09/887,703	DICESARE ET AL.	/
Office Action Summary	Examiner	Art Unit	
	Jeffrey R. Snay	1743	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wi	th the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no event, however, may a r eply within the statutory minimum of thirt d will apply and will expire SIX (6) MON tte. cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communica	ation.
Status			
Responsive to communication(s) filed on 13. This action is FINAL . 2b) ☑ The Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matt		s is
Disposition of Claims			
4) ☐ Claim(s) 1-3,6,7,10 and 12-16 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,6,7,10 and 12-16 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
9) The specification is objected to by the Examin			
10) The drawing(s) filed on is/are: a) ac			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Apority documents have been Its (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>09132004</u>.)/Mail Date formal Patent Application (PTO-152) 	

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09-13-04 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 3, 6, 7, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aronowitz in view of Kinoshita et al.

Aronowitz discloses a test device which comprises, referring to Figures 1 and 5, a sampling wand having a sampling swab (118) and an analysis structure (560) for receiving sample from the sampling swab. The analysis structure further includes a cylindrical reagent disk (575) which incorporates all the reagents necessary to perform the desired test for an analyte in the sample (see column 8, paragraph [0096].

The device of Aronowitz differs from the claimed invention in that it fails to specify the reagent disk as comprising a porous, non-fibrous absorbent polymeric material, and further fails to specify the incorporation of reagents therein by a process of contacting with a solvent/reagent solution followed by removal of the solvent.

However, Aronowitz does disclose the use of a porous, non-fibrous absorbent polymeric material as the sample collection swab. Furthermore, Aronowitz describes at length numerous advantages obtained thereby, including preclusion of inadvertent sample contamination (paragraph [0008]), absorption capacity (paragraph [0024]), and selectivity for analytes of interest (paragraph [0014]). One of ordinary skill in the art

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would have recognized these same attributes as being desirable in the sample receiving reagent disk, in the same manner as are desirable with respect to the sample receiving swab. Thus, it would have been obvious to the skilled artisan to form the reagent disk in Aronowitz from the same polyvinyl alcohol polymer as utilized for the sampling swab.

In this regard, Kinoshita et al are relied upon as further evidence that the use of a porous, absorbent polymer, such as polyvinyl alcohol, as a reagent support was known. See specifically column 3, lines 47-63 of Kinoshita et al. Kinoshita et al further teach the known method of reagent application to such materials as comprising contacting with reagent solution followed by drying (see column 6, 4th full paragraph). It is noted that the instant limitation regarding a method of reagent introduction suffices as a product by process type limitation. As such, the specific method steps claimed need not be expressed by the prior art so long as the resultant product is reasonably concluded to be the same. Nonetheless, Kinoshita et al make disclose the same method of fabrication as the instant claims.

6. Claims 2 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aronowitz in view of Kinoshita et al, as applied above, and further in view of Rosenblatt ('728).

The device of Aronowitz, as modified and described above, differs from the claimed invention in that it fails to specify the presently claimed physical properties associated with the absorbent polymer. However, both Aronowitz and Kinoshita et al disclose open cell, absorbent polyvinyl alcohol polymers as well suited for the intended

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purpose. Aronowitz further teaches that the particular physicial properties of such materials are readily controlled and optimized, including density, porosity and other physical properties in accordance with the needs of the contemplated use. See column 3, paragraph [0021]. Finally, Rosenblatt, the disclosure of which has been fully detailed in the last Office action, discloses a polyvinyl alcohol porous material which is know as useful for as a medical sponge. The specific material disclosed by Rosenblatt is identical with that taught by the instant specification as commercially available and having the now claimed properties. As such, it would have been obvious to one of ordinary skill in the art to select the polymeric material of Rosenblatt in the modified device of Aronowitz in view of the desirable absorption capabilities thereof, and such material would inherently have exhibited the now claimed physical properties.

7. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aronowitz in view of Kinoshita et al, as applied above, and further in view of Miller et al.

Aronowitz is silent as to the particular reagents employed in the disclosed reagent disk. Miller et al disclose the same reagent system as is presently claimed, such reagent system being incorporated into a polymeric reagent substrate by lyophilization, for the purpose of enabling detection of microbial contaminants. See particularly Miller et al at column 8, line 54, through column 9, line 62. It would have been obvious to one of ordinary skill in the art to utilize the reagent system of Miller et al in the reagent disk of Aronowitz in order to enable the detection of microbial contaminants in a collected sample.

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Response to Arguments

- 8. Applicant's arguments with respect to claims 1-3, 6-7, 10 and 12-16 have been considered but are moot in view of the new ground(s) of rejection.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. Snay whose telephone number is (571) 272-1264. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Jeffrey R. Snay Primary Examiner Art Unit 1743

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